

FIG. 1

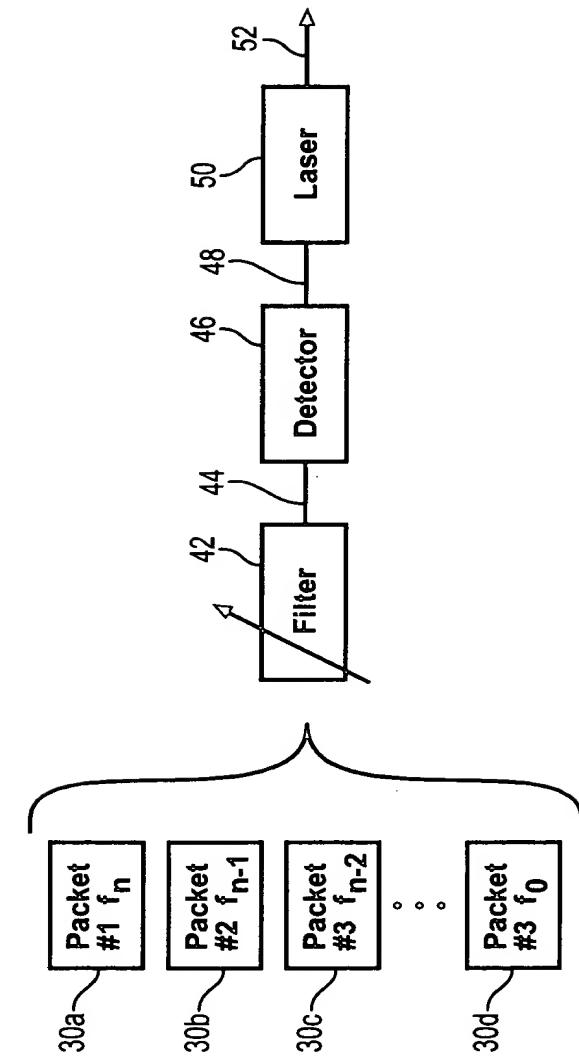
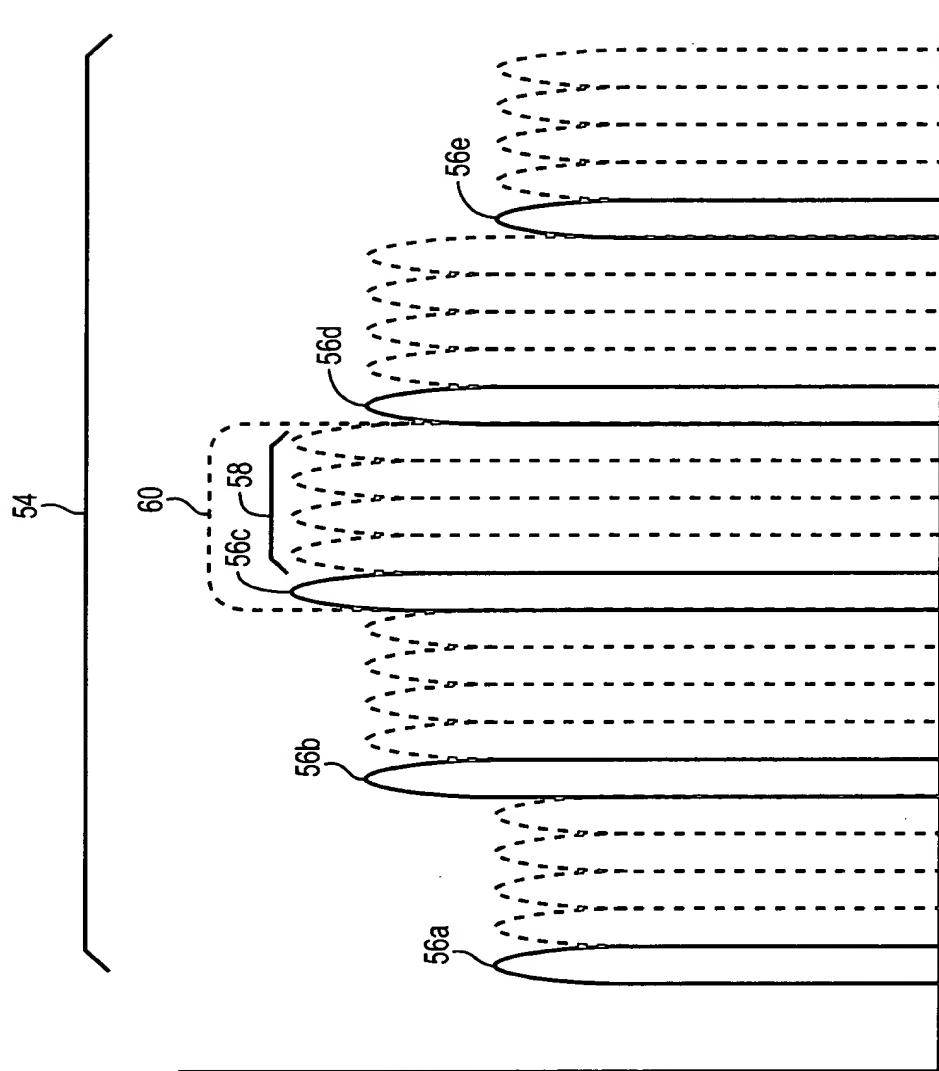


FIG. 2

FIG. 3



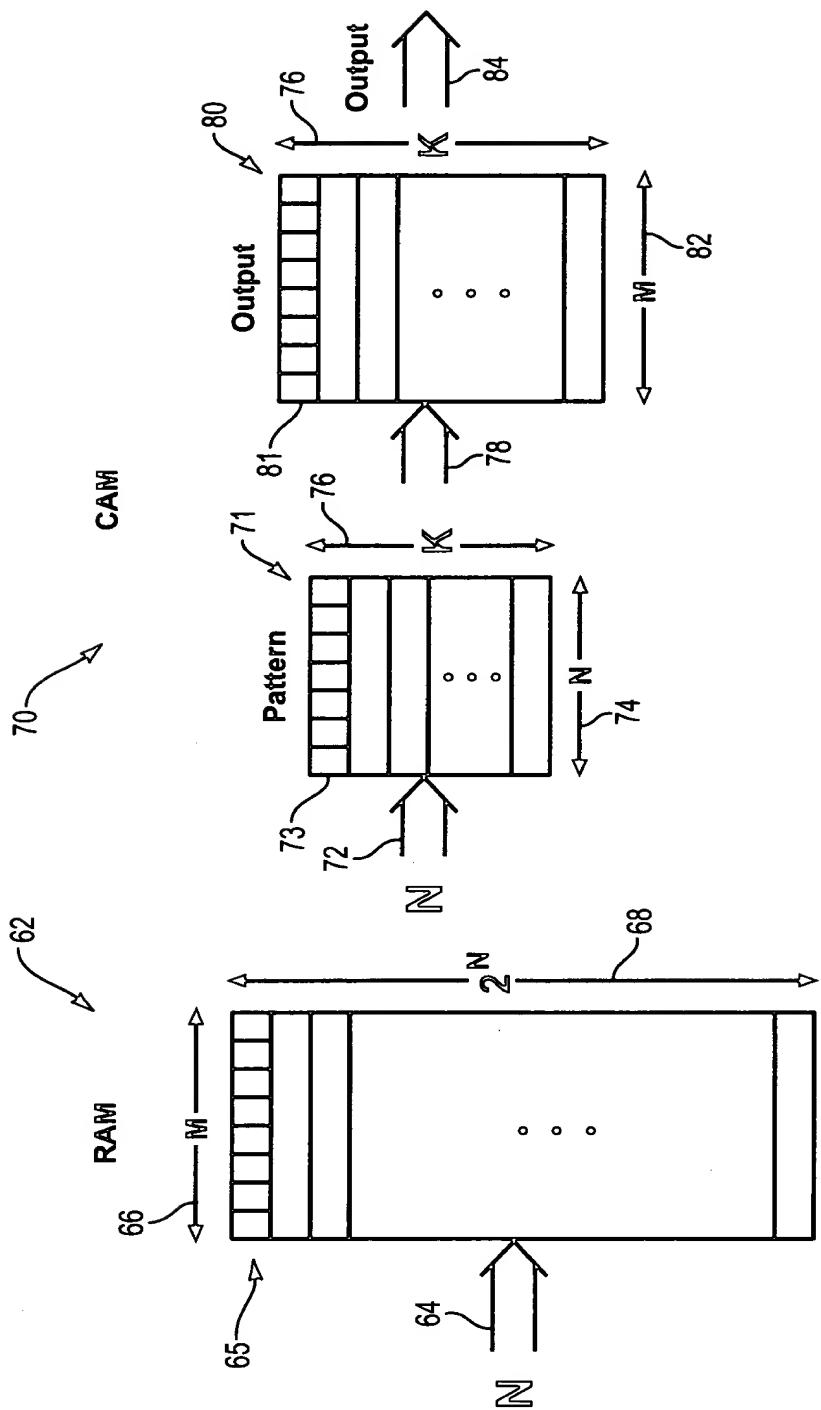


FIG. 4

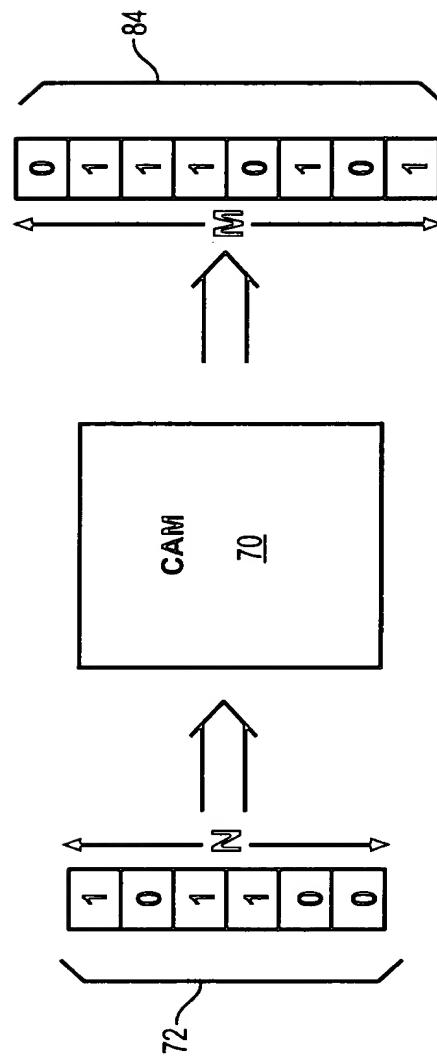
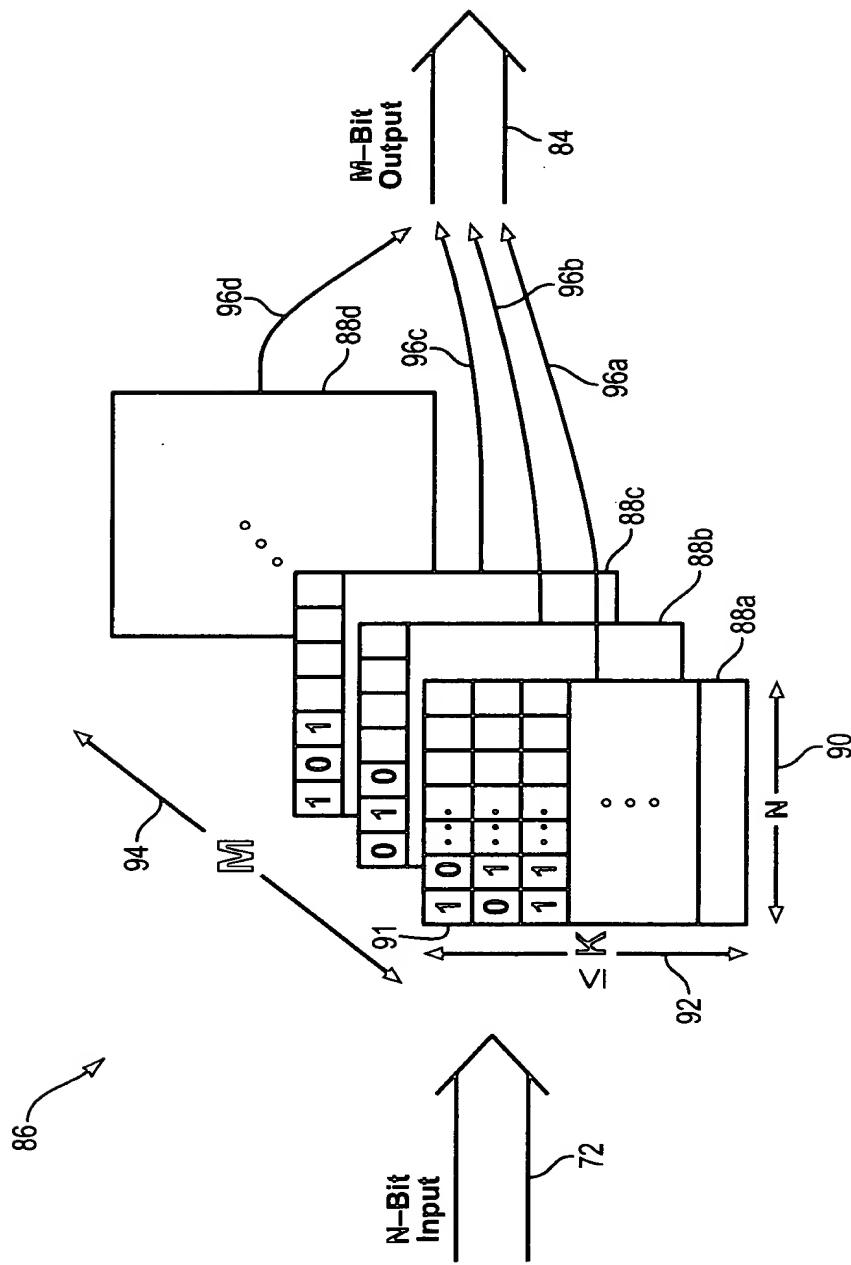
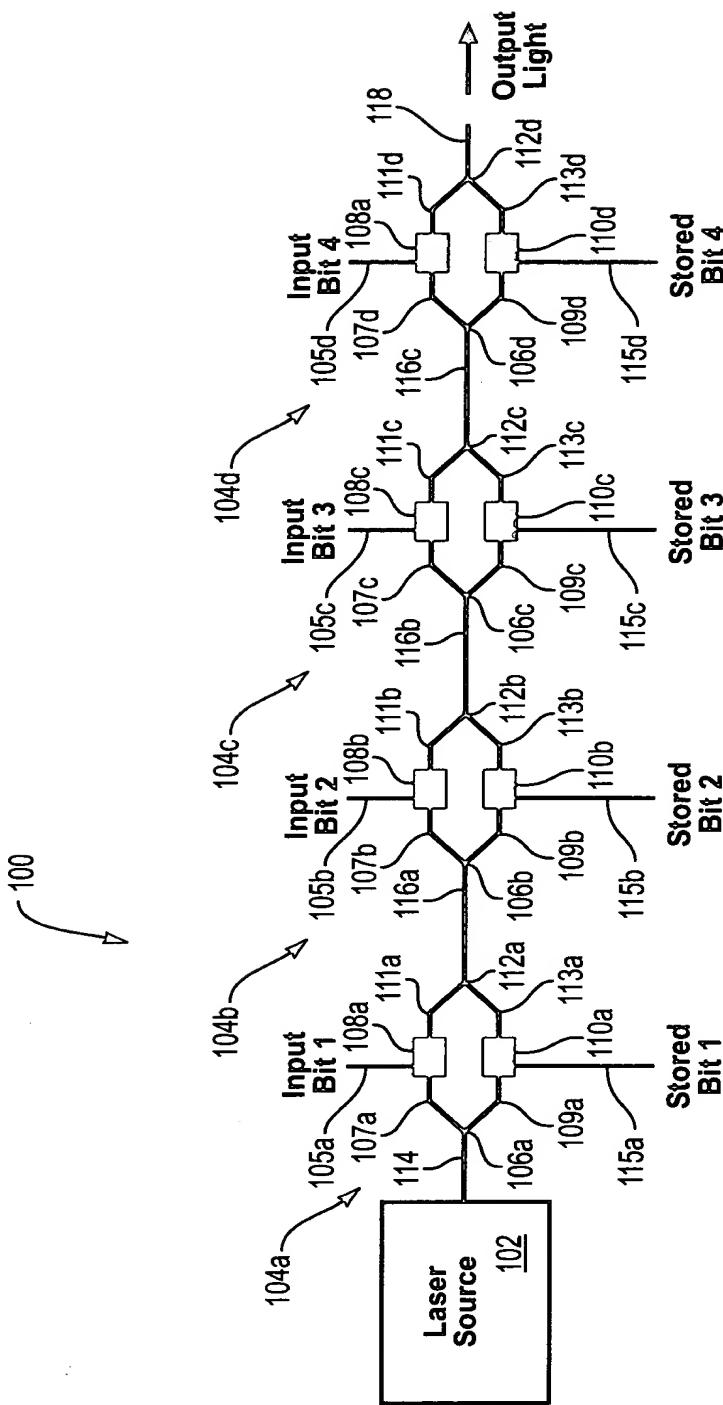


FIG. 5



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Use of Mach – Zehnder Modulators  
to Match Input Patterns

FIG. 7

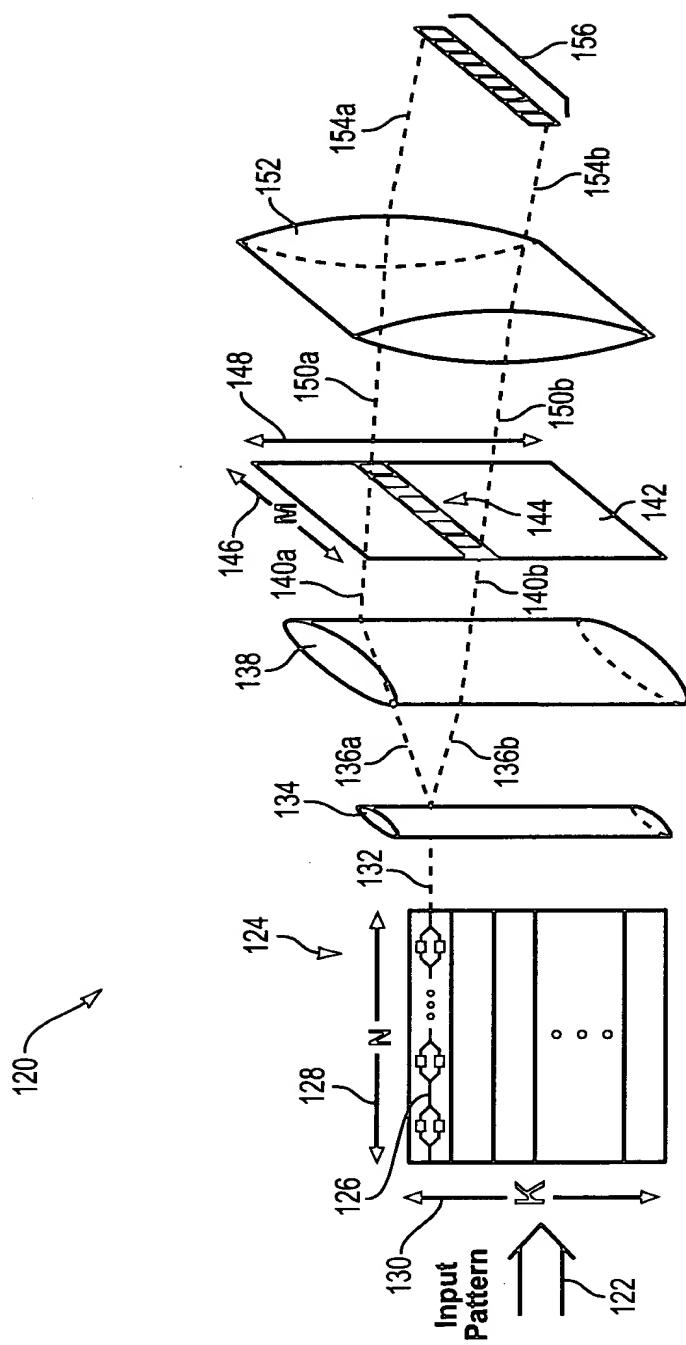


FIG. 8

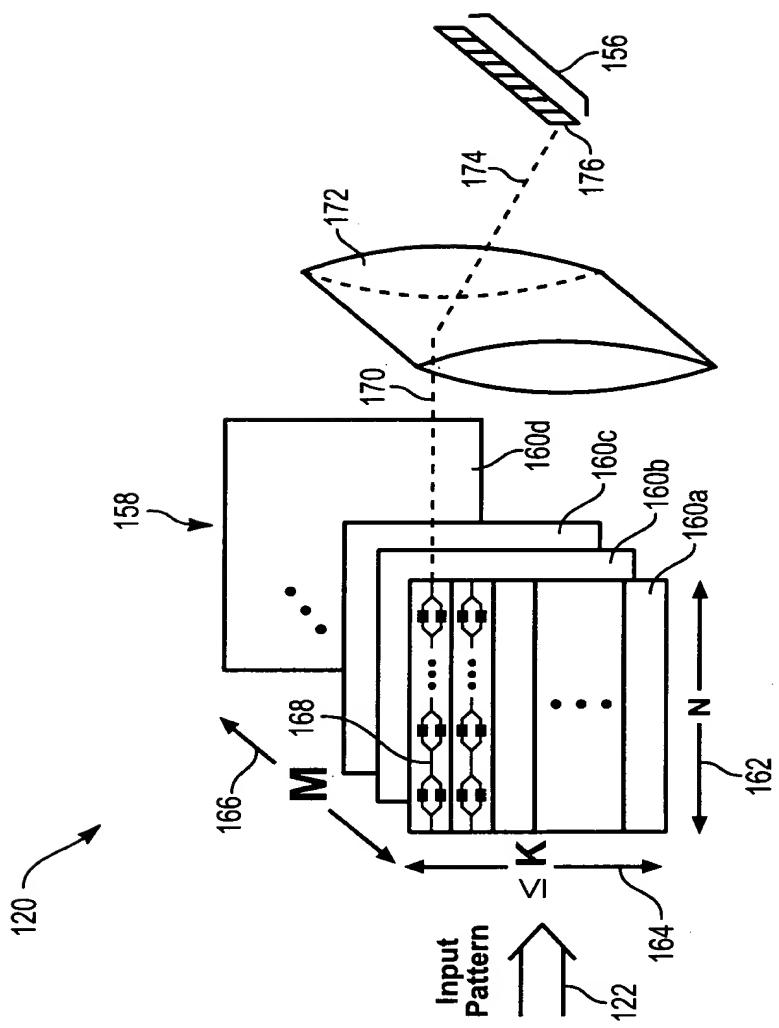


FIG. 9

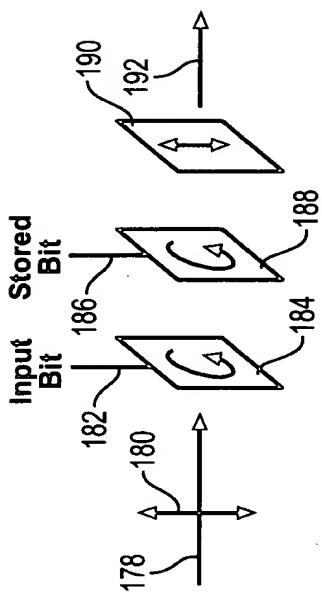


FIG. 10A

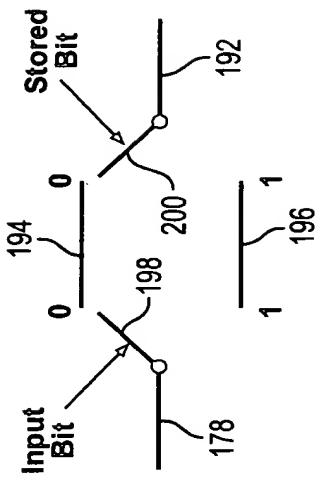


FIG. 10B

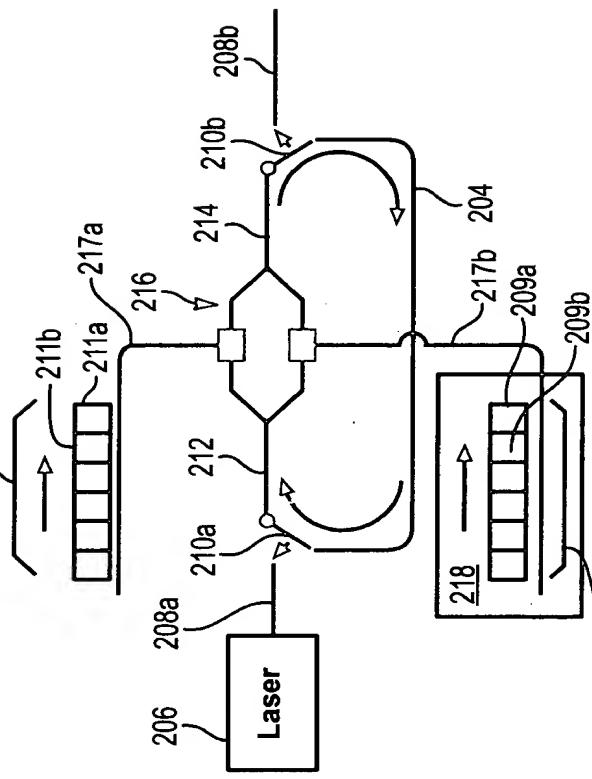
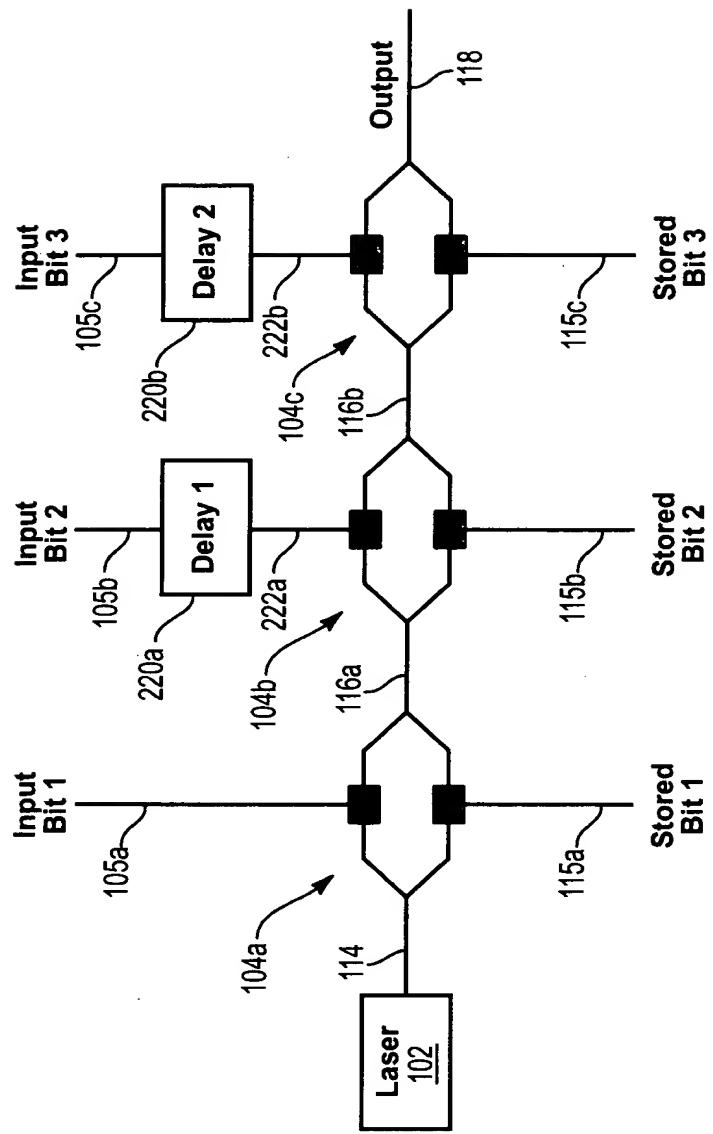


FIG. 10C



**FIG. 11**